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APPLICATION NO.	FILING DAT	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/649,767	08/28/2003	Masaki Takai	241959US0	5868
22850	7590 07/	/2005 .	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			KEYS, ROSALYND ANN	
.,	CIA, VA 22314		ART UNIT	PAPER NUMBER
	,		1621	

DATE MAILED: 07/12/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Astion Comments	10/649,767	TAKAI ET AL.				
Office Action Summary	Examiner	Art Unit				
	Rosalynd Keys	1621				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl f NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	I36(a). In no event, however, may by within the statutory minimum of will apply and will expire SIX (6) No c, cause the application to become	v a reply be timely filed thirty (30) days will be considered timely. IONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 12 A	April 2005					
·	· <u> </u>					
closed in accordance with the practice under to	· ·	•				
Disposition of Claims						
4) ☐ Claim(s) 7-26 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>7-26</u> is/are rejected.						
7) Claim(s) is/are objected to.		•				
8) Claim(s) are subject to restriction and/o	or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) objected	to by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abey	/ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	tion is required if the drawi	ng(s) is objected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the Ex	xaminer. Note the attach	ned Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau	ts have been received. Is have been received in the state of the stat	Application No				
* See the attached detailed Office action for a list	, , , , , , , , , , , , , , , , , , , ,	ot received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		w Summary (PTO-413) lo(s)/Mail Date				
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 		of Informal Patent Application (PTO-152)				
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Art Unit: 1621

DETAILED ACTION

Status of Claims

1. Claims 7-26 are pending.

Claims 7-26 are rejected.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 7-26 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The claims include the limitation "wherein the oxygen nucleophilic agent is not the same as the monodentate phosphite compound". However, this limitation is not supported in the original disclosure.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 1621

5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

6. Claims 7-10, 16, 18, 22, 24 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Arend et al. (US 4,017,564).

Arend et al. teach preparing (meth)allyl phosphonic acid dialkyl esters comprising reacting allyl chloride or methallyl chloride with a phosphorus acid trialkyl ester of the formula P(OR')3 wherein R' is a straight-chain or branched, optionally halogen-substituted alkyl radical having up to 4 carbon atoms in the presence of a nickel catalyst (see entire disclosure, in particular column 1, line 66 to column 2, line 35).

Arend et al. differ from the instant claims in that Arend et al. do not teach that the phosphorus acid trialkyl ester may also be used as a catalyst in the reaction. However, the amounts utilized by Arend et al. are sufficient for its use as a catalyst. Thus, although it is not disclosed as being useful as a catalyst, its use as a catalyst is implied.

7. Claims 7-24 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kurtz et al. (US 3,755,451) alone or in view of Bryant et al. (US 3,534,088).

Kurtz et al. clearly suggest exchange reactions between allylic compounds and active hydrogen containing compounds (XH compounds) in the presence of a catalyst such as platinum, palladium, ruthenium and the like along with modifiers which include phosphites (see entire disclosure, in particular column 4, line 13 to column 9, line 27). Thus, although the claimed phosphite compounds are not exemplified by Kurtz et al. they are clearly suggested and therefore their use would have been obvious to one having ordinary skill in the art at the time the invention was made.

Kurtz et al. further do not exemplify the use of an ammonium compound. However,

Kurtz et al. teach that the catalyst of Bryant et al. is active for promoting the exchange reaction

Art Unit: 1621

(see column 4, lines 47-51). Bryant et al. teaches that an ammonium compound is useful as a source carboxylate ion in their catalyst (see entire disclosure, in particular column 3, lined 39 to column 4, line 15). One having ordinary skill in the art at the time the invention was made would have found it obvious to include an ammonium compound in the catalyst of Kurtz et al., since Bryant et al. teach that the addition of a carboxylate ion to the catalyst is beneficial (see column 3, lines 39-47).

Response to Amendment

Claim Rejections - 35 USC § 112

8. The rejection of claims 2 and 3 under 35 U.S.C. 112, second paragraph is withdrawn, since these claims have been cancelled.

Claim Rejections - 35 USC § 102

- 9. The rejection of claims 1, 3, 4 and 6 under 35 U.S.C. 102(b) as being anticipated by Jung (US 3,775,469) is withdrawn since these claims have been cancelled. In addition new claims 7-26 are patentable over Jung because Jung does not teach or fairly suggest reacting an allyl compound having the claimed formula (a).
- 10. The rejection of claims 1 and 3-6 r under 35 U.S.C. 102(e) as being anticipated by Chauvin et al. (US 6,525,228 B2) is withdrawn since these claims have been cancelled. In addition new claims 7-26 are patentable over Chauvin et al. because Chauvin et al. do not teach or fairly suggest reacting an allyl compound having the claimed formula (a).
- 11. The rejection of Claims 1 and 5 under 35 U.S.C. 103(a) as being unpatentable over by Chauvin et al. (US 6,525,228 B2) is withdrawn since these claims have been cancelled.
- 12. The rejection of claims 1 and 5 under 35 U.S.C. 103(a) as being unpatentable over by Jung (US 3,775,469) is withdrawn since these claims have been cancelled.

Art Unit: 1621

13. The rejection of claims 1-5 under 35 U.S.C. 103(a) as being unpatentable over Arend et al. (US 4,017,564) is withdrawn since these claims have been cancelled.

Response to Arguments

14. Applicant's arguments filed April 12, 2005 have been fully considered but they are not persuasive. The Applicants argue that Arend et al. use the phosphite as a substrate and not as a catalyst. This argument is not persuasive because as discussed in the previous office action the amount of phosphite utilized by Arend et al. is enough for the phosphite to be useful as a catalyst. Further, the claims do not exclude the phosphite from being both the catalyst and the substrate. The Applicants arguments concerning the newly added limitation "wherein the oxygen nucleophilic agent is not the same as the monodentate phosphite compound" is not persuasive because this limitation is not supported in the original disclosure and is therefore considered new matter. For the above reasons the Examiner believes that the instant claims, as applied above, are not patentable over Arend et al.

Conclusion

15. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

Art Unit: 1621

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rosalynd Keys whose telephone number is 571-272-0639. The examiner can normally be reached on M and F 3:00-8:00 pm and T-TR 5:30-10:30 am.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on 571-272-0646. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rosalyne Keys
Primary Examiner

Page 6

Art Unit 1621

July 9, 2005